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CT: C204117 TIP PROJECT:	
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STATE	\mathbb{OF}	NORT	\mathbb{H}^{r}	CAROLINA
DIVI	SION	JOF	HIC	HWAYS

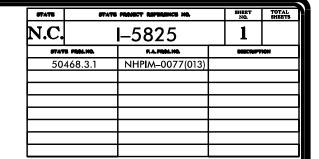
MECKLENBURG COUNTY

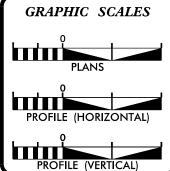
LOCATION: I-77 FROM PAVEMENT JOINT JUST NORTH OF TYVOLA ROAD BRIDGE DECK OVER W. MOREHEAD STREET

MM 5.3 TO MM 9.8

TYPE OF WORK: MILLING AND PAVING WITH HOT MIX ASPHALT CONCRETE PAVEMENT REPAIR PAVEMENT MARKINGS SNOWPLOWABLE PAVEMENT MARKERS

WILKINSON BLVD.		TT N	END PROJECT I-5825	
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E Wooding of				
	REGIN PROJECT			in the state of th
XI D	BEGIN PROJECT I-5825	NH19		





DESIGN DATAADT 2016 = 160,000

ADT = %

* TTST = DUAL

PROJECT LENGTH

LENGHT OF ROADWAY PROJECT 50468.3.1 = 4.7 MILES

TOTAL LENGHT OF STATE PROJECT 50468.3.1 = 4.7 MILES

Prepared in the Office of: DIVISION OF HIGHWAYS DIVISION 10

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

NA

LETTING DATE: MAY 15, 2018 JOHN EDMONDS

PROJECT ENGINEER

JOHN EDMONDS
PROJECT DESIGN ENGINEER

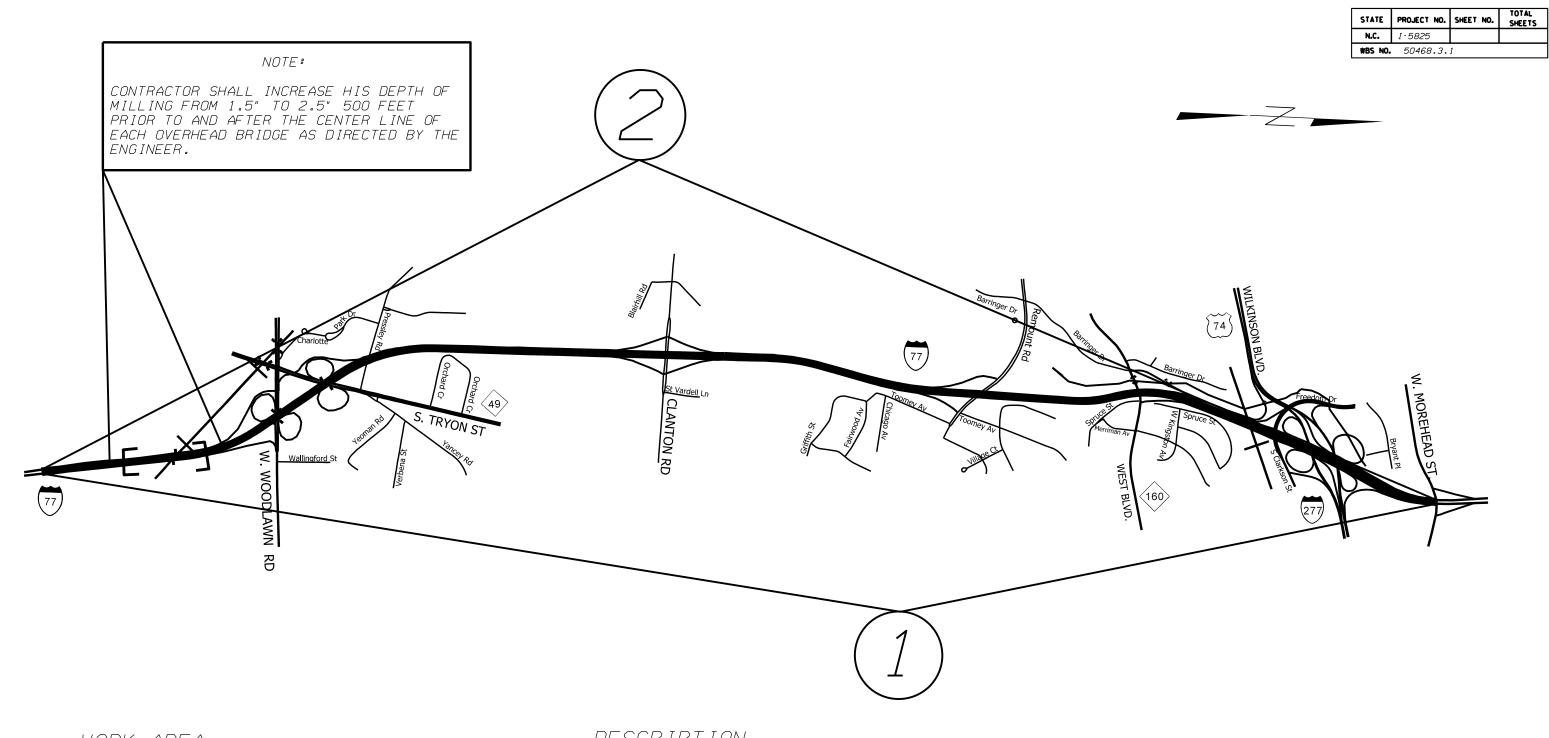
HYDRAULICS ENGINEER

NATURE: P.E.

ROADWAY DESIGN ENGINEER

ONDS GINEER





#1 I-77 NORTH BOUND

#2 I-77 SOUTH BOUND

DESCRIPTION

FROM PAVEMENT JOINT NORTH OF TYVOLA RD. (MM 5.3) NB TO OVERPASS BRIDGE AT W. MOREHEAD ST. (MM 9.8), (SEE TYPICAL 1,2,3,4,5,6,7,8,9,10,11)

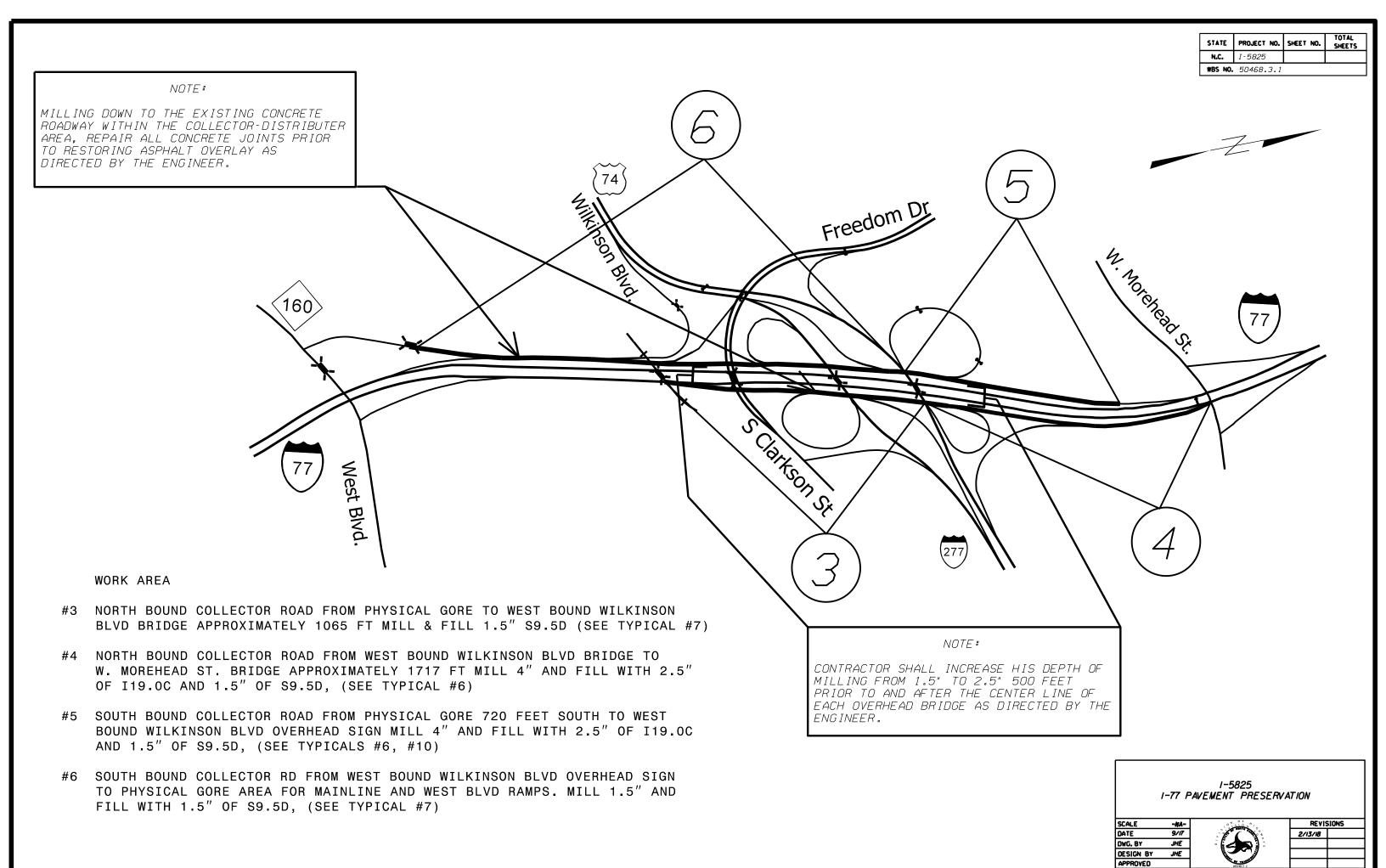
FROM OVERPASS BRIDGE AT W. MOREHEAD ST. (MM 20.47) SB TO PAVEMENT JOINT NORTH OF TYVOLA RD. (MM 24.96), (SEE TYPICAL 1,2,3,4,5,6,7,8,9,10,11)

I-5825 I-77 PAVEMENT PRESERVATION

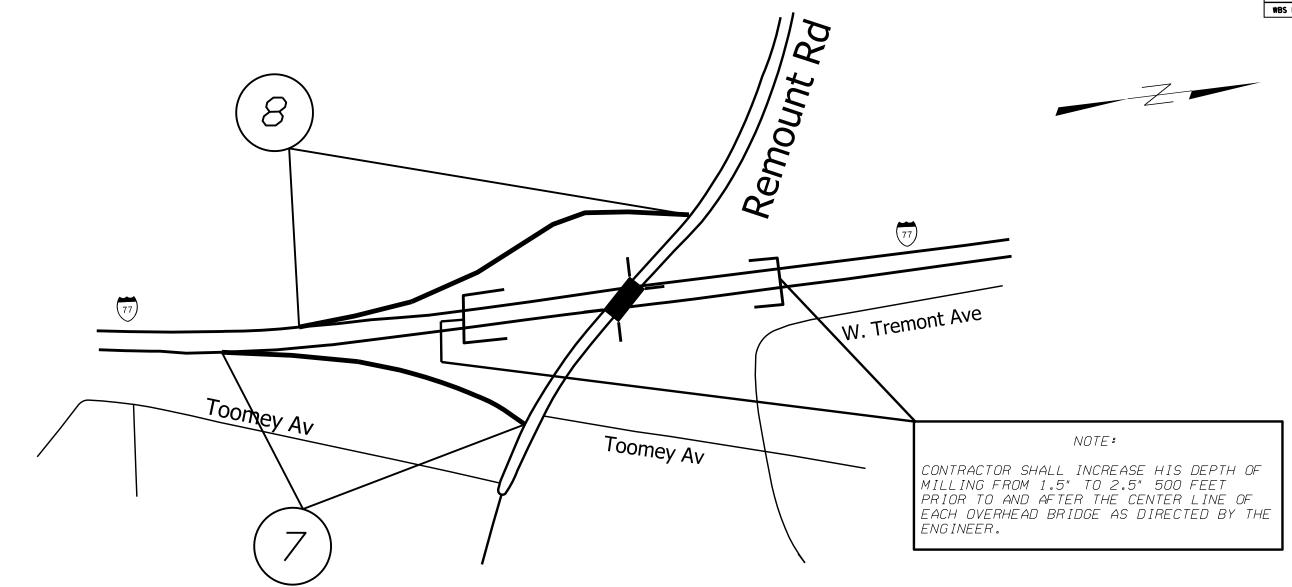
DWG. BY DESIGN BY







STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I - 5825		
WRS NO.	50468 3	1	



#7 I-77 NB OFF RAMP

DESCRIPTION

FROM PHYSICAL GORE TO REMOUNT RD.

APPROX. 557 FEET REMOVE ASPHALT OVERLAY

AND REPAIR CONCRETE PAVEMENT AND

ASPHALT SHOULDER. (SEE TYPICAL

12, # 13, # 14)

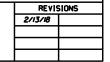
#8 I-77 SB ON RAMP

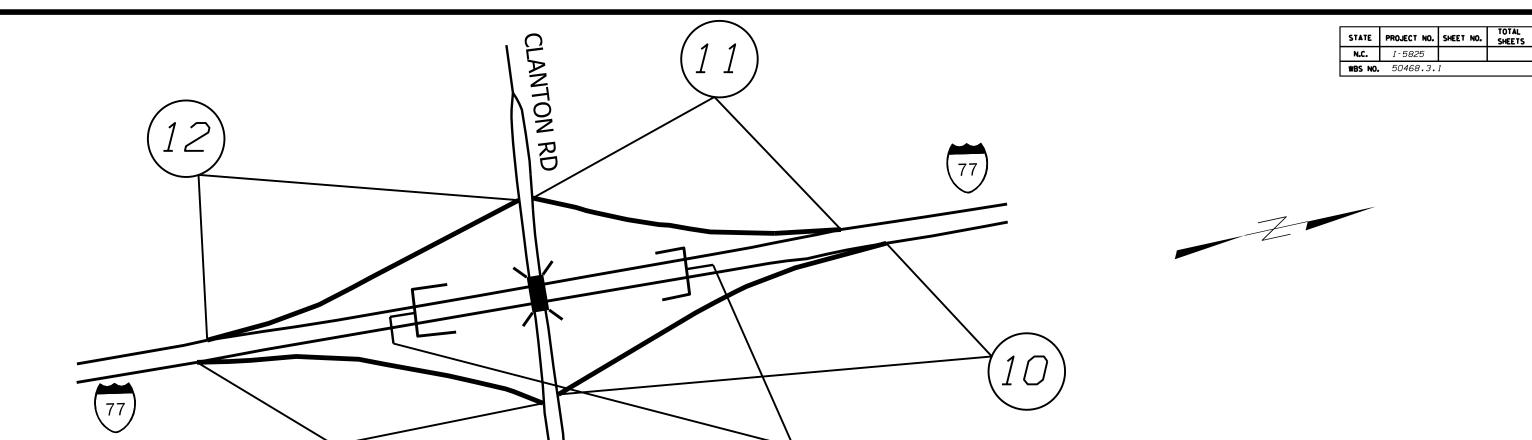
FROM REMOUNT RD. TO PHYSICAL GORE APPROX. 990 FEET REPAIR CONCRETE PAVEMENT AND ASPHALT SHOULDERS. (SEE TYPICAL #13, #14)

I-5825 I-77 PAVEMENT PRESERVATION

SCALE -WADATE 9//7
DWG. BY JHE
DESIGN BY JHE
APPRIVED







#10 I-77 NB ON RAMP

#11 I-77 SB OFF RAMP

#12 I-77 SB ON RAMP

DESCRIPTION

FROM PHYSICAL GORE TO CLANTON RD. (SEE TYPICAL #16)

ENGINEER.

NOTE:

CONTRACTOR SHALL INCREASE HIS DEPTH OF MILLING FROM 1.5" TO 2.5" 500 FEET PRIOR TO AND AFTER THE CENTER LINE OF

EACH OVERHEAD BRIDGE AS DIRECTED BY THE

FROM CLANTON RD. TO PHYSICAL GORE REPAIR CONCRETE PAVEMENT AND ASPHALT SHOULDER. SEE (TYPICAL #14)

FROM PHYSICAL GORE TO CLANTON RD. (SEE (TYPICAL #16)

FROM CLANTON ROAD TO PHYSICAL GORE SEE (TYPICAL #16)

I-5825 I-77 PAVEMENT PRESERVATION

 SCALE
 -NA

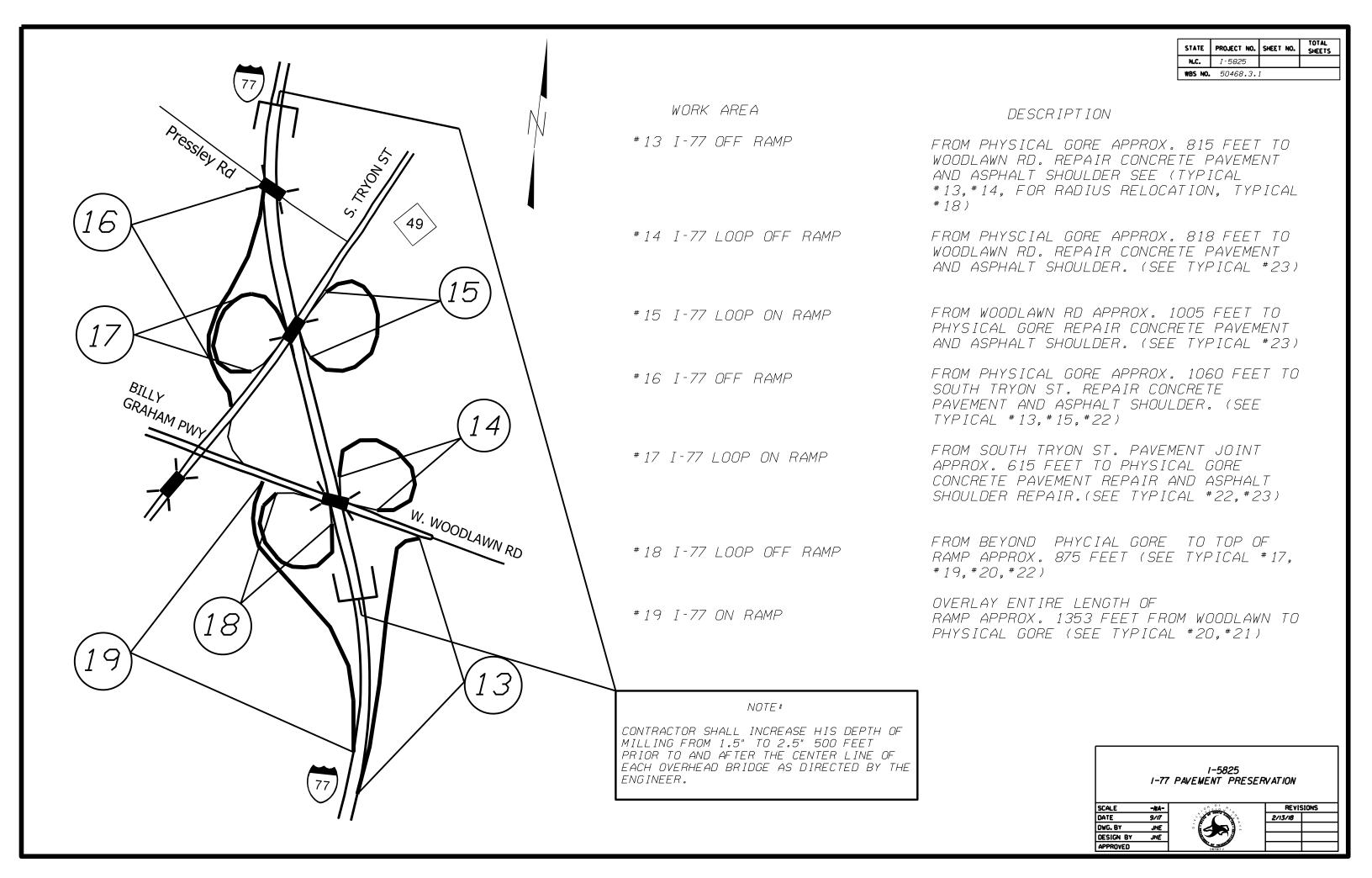
 DATE
 9/17

 DWG. BY
 JHE

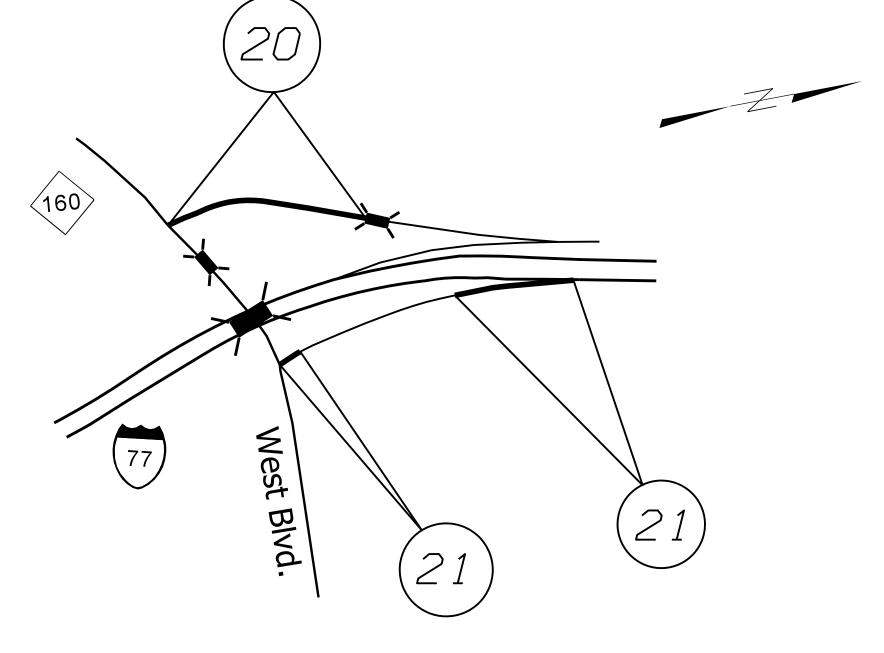
 DESIGN BY
 JHE







STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I - 5825		
WBS NO.	50468.3.	1	



#20 OFF RAMP TO WEST BLVD

#21 ON RAMP TO NB I-77

#21 ON RAMP TO NB I-77

DESCRIPTION

FROM BRIDGE DECK TO WEST BLVD. REPAIR CONCRETE PAVEMENT AND ASPHALT SHOULDER SEE (TYPICAL #13, #14)

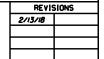
REPAIR CONCRETE PAVEMENT FROM ASPHALT JOINT FOR APPROX. 30 FEET UP RAMP (SEE TYPICAL #24)

PAVE 80 FEET PRIOR TO PHYSICAL GORE, BUILD UP PAVEMENT TO MATCH MAINLINE GRADE AND SUPER, (SEE TYPICAL #20)

I-5825 I-77 PAVEMENT PRESERVATION

-NA-
9/17
JHE
JHE





GENERAL NOTES:

MAINLINE TYPICALS INCLUDE ACCELERATION AND DECELERATION LANES FOR THE RAMPS UP TO THE PHYSICAL GORE. THESE TYPICALS GENERALLY DEPICT MILLING 1.5" AND THEN PAVING ASHPALT CONCRETE SURFACE COURSE S9.5D AT A DEPTH OF 2.0" FOR THE FULL WIDTH OF THE ROADWAY TO INCLUDE SHOULDERS.

THE ULTRATHIN BONDED WEARING COURSE ARE INTENDED TO BE PLACED IN THE TRAVEL LANES AND GORE AREAS BUT NOT ON THE SHOULDERS.

RAMP TYPICALS ARE APPLICABLE BETWEEN PHYSICAL GORE AND INTERSECTING Y-LINE EDGE OF TRAVEL. ULTRATHIN BONDED WEARING COURSE IS NOT INTENDED TO BE PLACED ON THE RAMPS BETWEEN THE PHYSICAL GORE AND THE INTERSECTING Y-LINE.

MAINLINE TYPICALS ON I-77 NORTHBOUND AND SOUTHBOUND DIRECTION INCLUDE THE BRIDGES AT WILKINSON BLVD INTERCHANGE, REMOUNT RD, CLANTON RD, PRESSLEY RD, SOUTH TRYON ST, WOODLAWN RD, AND TWO RAILROAD BRIDGES. THE COMBINATION OF MILLING AND REPLACING ASPHALT PAVEMENT TO THE EXISTING GRADE IS NECESSARY TO MAINTAIN THE EXISTING BRIDGE CLEARANCE.

THE CONTRACTOR SHALL INCREASE HIS MILLING DEPTH FROM 1.5" TO 2.5" 500 FEET PRIOR TO AND AFTER THE CENTER LINE OF EACH OVERHEAD BRIDGE, IN ORDER TO MAINTAIN THE EXISTING BRIDGE CLEARANCE.

THE MILLING AND PAVEMENT STRUCTURE OF THE MAINLINE TRAVEL LANES SHALL BE THE CONTROLLING GRADE. ALL OTHER MILLING AND PAVING SHALL TIE-IN ACCORDINGLY.

THE MAINLINE CROSS SECTION OF S9.5D SHALL BE PLACED IN SUCH A MANNER THAT THE MAT, AND EACH INDIVIDUAL PULL, WILL BE FLUSH WITH EACH OTHER ACROSS THE ENTIRE WIDTH OF THE ROADWAY TO INCLUDE SHOULDERS. THE TRAVEL LANES WEARING SURFACE OF ULTRATHIN BONDED WEARING COURSE SHALL BE PLACED IN SUCH A MANNER THAT IT WILL EXIST AT AN ELEVATION APPROXIMATELY 5/8" HIGHER THAN THE SURROUNDING SHOULDER PAVEMENT.

THE EXISTING PAVEMENT STRUCTURE CONSISTS OF AN OPEN GRADED FRICTION COURSE OVER ASPHALT CONRETE PAVEMENT OVER CONCRETE PAVEMENT.

SHOULDER RECONSTRUCTION ON THE MAINLINE WILL BE PLACED AS DIRECTED BY THE ENGINEER.

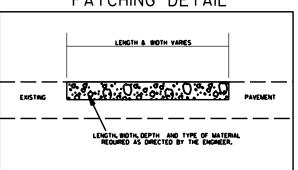
FOR ALL CONCRETE ON RAMPS WITH ASPHALT OVERLAYS, BUILD UP THICKNESS TO MATCH MAINLINE GRADE AND SUPER. FOR OFF RAMPS TAPER DOWN PAVEMENT THICKNESS FOR SMOOTH TRANSITION.

STATE PROJECT NO. SHEET NO. SHEETS

N.C. 1-5825

WBS NO. 50468.3.1

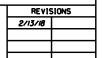
PATCHING DETAIL



I-5825 I-77 PAVEMENT PRESERVATION

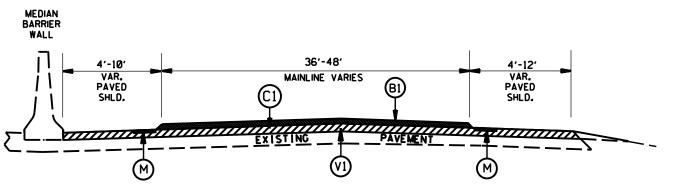
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DWG. BY JHE
DESIGN BY JHE



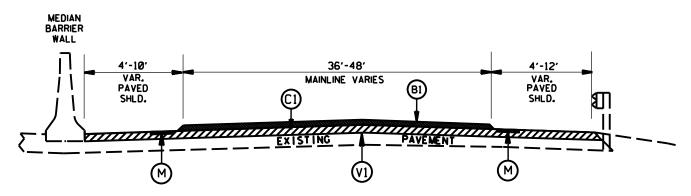


	PAVEMENT SCHEDULE
A1	APPROX. 10" PCC SLAB REPAIR
В1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
СЗ	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
C4	PROP. APPROX. 3.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
C5	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
М	MILLED RUMBLE STRIPS
Т	SHOULDER RECONSTRUCTION
V1	MILLING 1.5" DEPTH
V2	MILLING, 2.0" DEPTH
٧3	MILLING, 4.0" DEPTH
V4	MILLING, 2.5" DEPTH, BELOW ALL OVERHEAD BRIDGES
Z	REMOVE AND REPLACE 2'-6" CONCRETE CURB & GUTTER

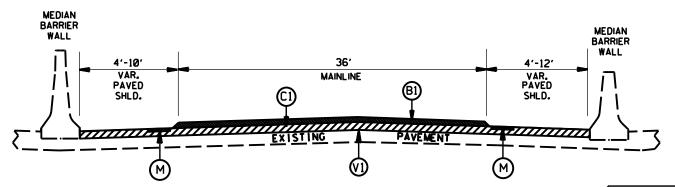
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	1-5825		
WBS NO.	50468.3.1		



TYPICAL SECTION NO.1



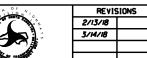
TYPICAL SECTION NO.2



TYPICAL SECTION NO.3

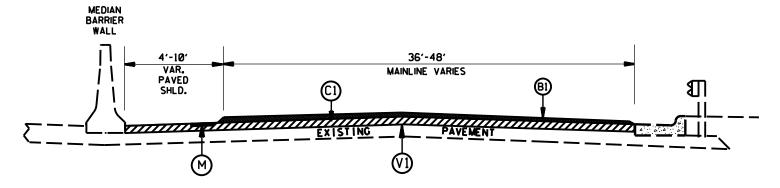


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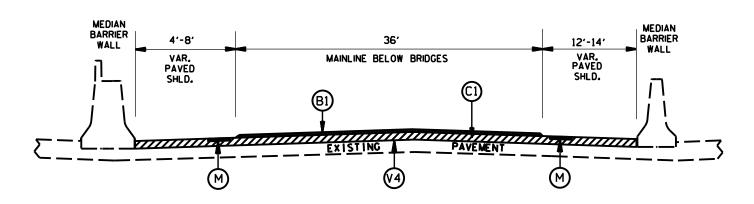


	PAVEMENT SCHEDULE
A1	APPROX. 10" PCC SLAB REPAIR
В1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
СЗ	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
C4	PROP. APPROX. 3.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
C5	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
М	MILLED RUMBLE STRIPS
Т	SHOULDER RECONSTRUCTION
V1	MILLING 1.5" DEPTH
V2	MILLING, 2.0" DEPTH
V3	MILLING, 4.0" DEPTH
V4	MILLING, 2.5" DEPTH, BELOW ALL OVERHEAD BRIDGES
Z	REMOVE AND REPLACE 2'-6" CONCRETE CURB & GUTTER

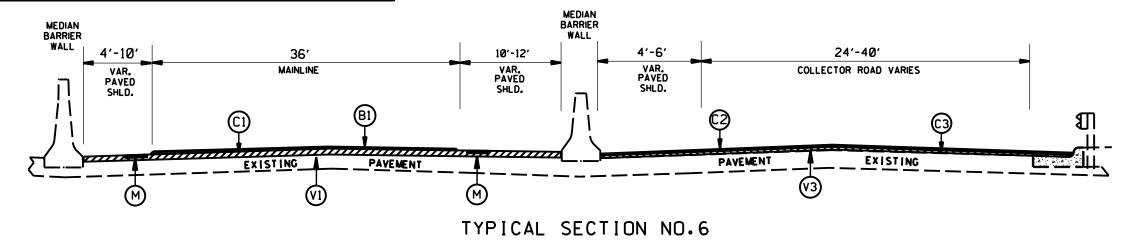
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5825		
WRS NO.	50468.3.1		



TYPICAL SECTION NO.4



TYPICAL SECTION NO.5

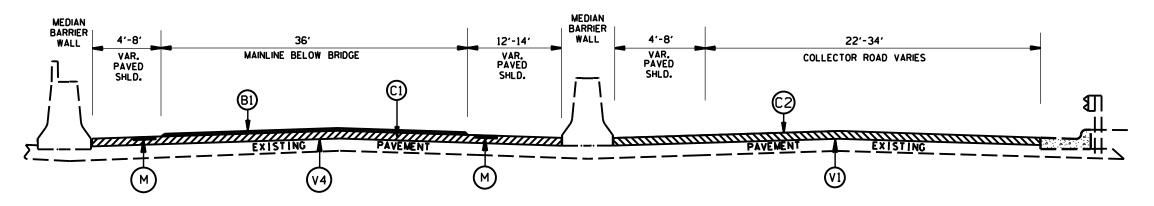


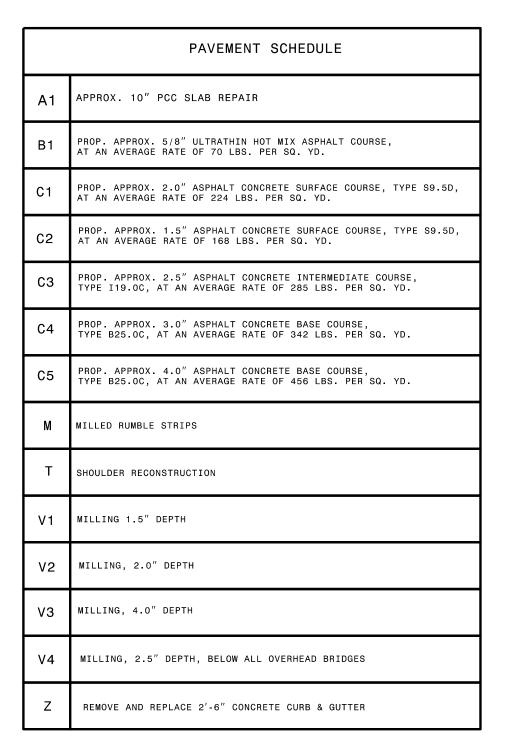


SCALE	-NA-
DATE	9/17
DWG. BY	JHE
DESIGN BY	JHE
APPROVED	

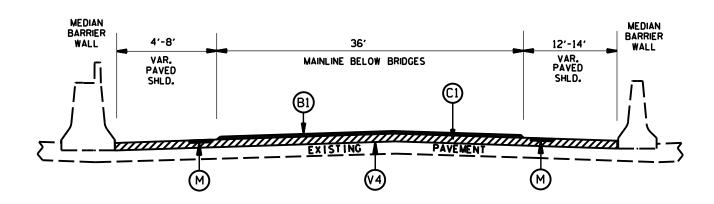




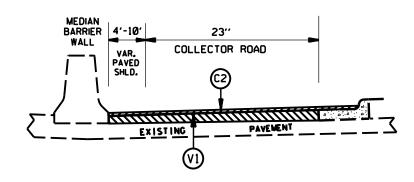




TYPICAL SECTION NO.7
BELOW BRIDGE



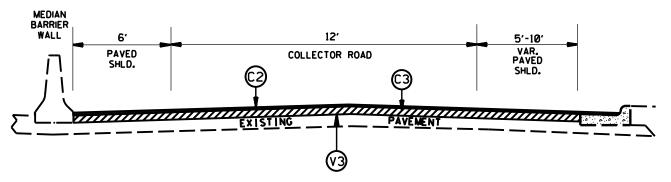
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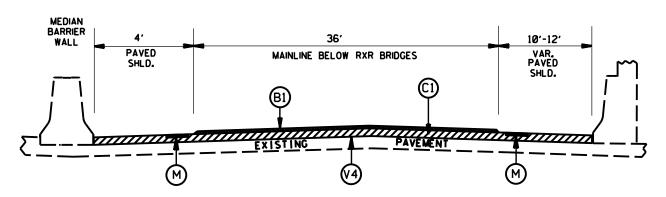
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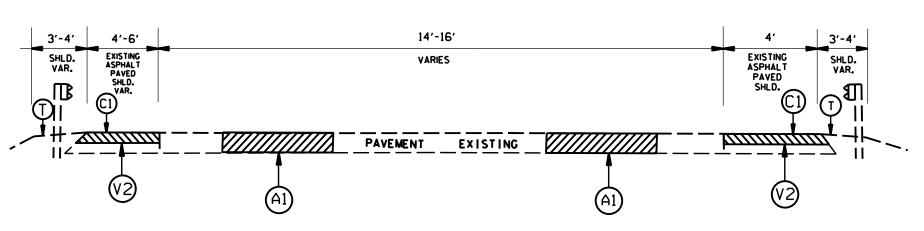
PAVEMENT SCHEDULE			
A1	APPROX. 10" PCC SLAB REPAIR		
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.		
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C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.		
СЗ	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.		
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C5	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.		
М	MILLED RUMBLE STRIPS		
Т	SHOULDER RECONSTRUCTION		
V1	MILLING 1.5" DEPTH		
V2	MILLING, 2.0" DEPTH		
V3	MILLING, 4.0" DEPTH		
V4	MILLING, 2.5" DEPTH, BELOW ALL OVERHEAD BRIDGES		
Z	REMOVE AND REPLACE 2'-6" CONCRETE CURB & GUTTER		



TYPICAL SECTION NO.10



TYPICAL SECTION NO.11

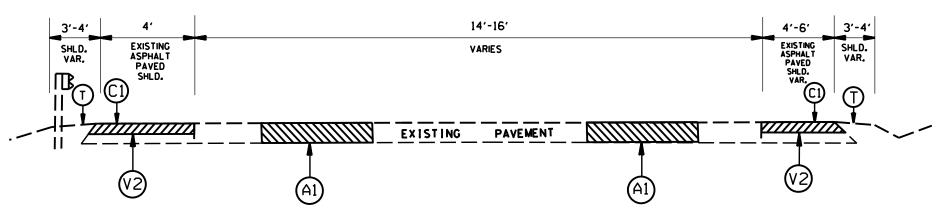


TYPICAL SECTION NO.12 RAMP

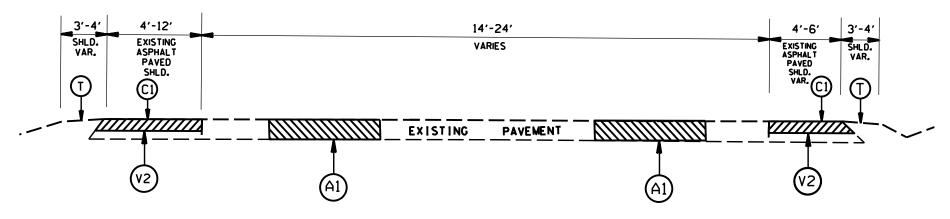


	PAVEMENT SCHEDULE
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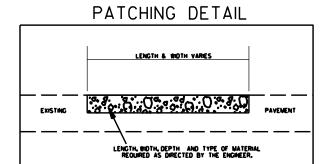
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5825		
WRS NO	50468 3 1		



TYPICAL SECTION NO.13



TYPICAL SECTION NO.14



I-5825 I-77 PAVEMENT PRESERVATION

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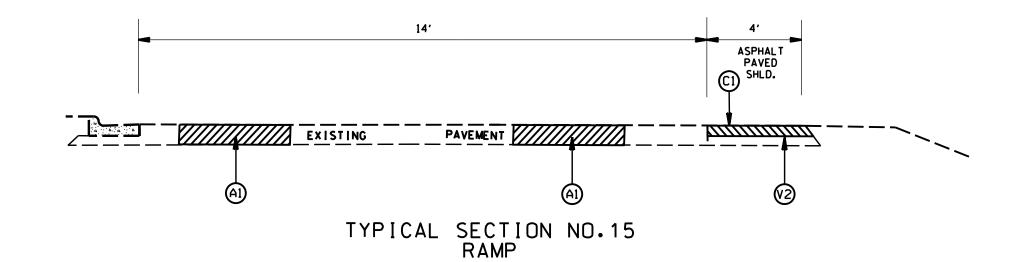


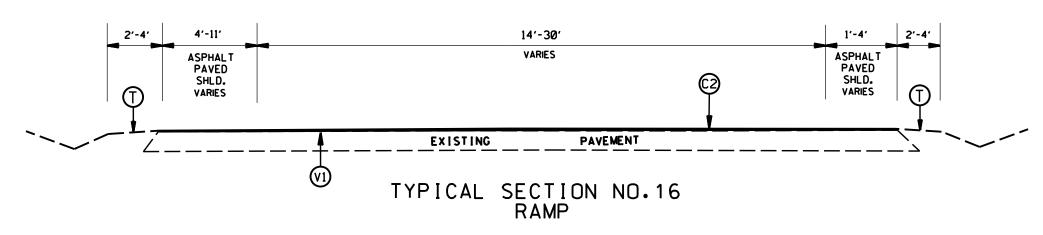
PAVEMENT SCHEDULE			
A1	APPROX. 10" PCC SLAB REPAIR		
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V1	MILLING 1.5" DEPTH		
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Z	REMOVE AND REPLACE 2'-6" CONCRETE CURB & GUTTER		

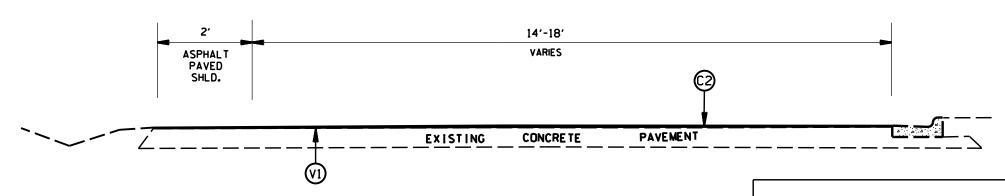
STATE PROJECT NO. SHEET NO. SHEETS

N.C. 1-5825

WBS NO. 50468.3.1







TYPICAL SECTION NO.17

I-5825 I-77 PAVEMENT PRESERVATION

SCALE	-NA-
DATE	9/17
DWG. BY	JHE
DESIGN BY	JHE
APPROVED	



PAVEMENT SCHEDULE			
A1	APPROX. 10" PCC SLAB REPAIR		
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.		
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.		
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М	MILLED RUMBLE STRIPS		
Т	SHOULDER RECONSTRUCTION		
V1	MILLING 1.5" DEPTH		
V2	MILLING, 2.0" DEPTH		
V3	MILLING, 4.0" DEPTH		
V4	MILLING, 2.5" DEPTH, BELOW ALL OVERHEAD BRIDGES		
Z	REMOVE AND REPLACE 2'-6" CONCRETE CURB & GUTTER		

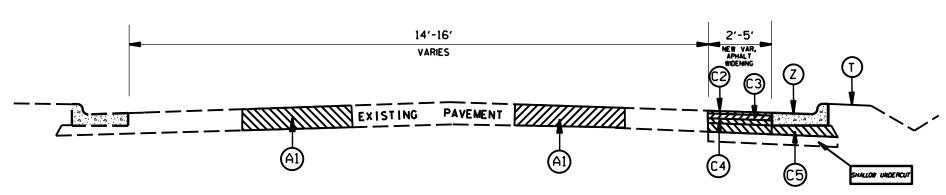
STATE PROJECT NO. SHEET NO. SHEET NO. SHEET SHEETS

N.C. 1-5825

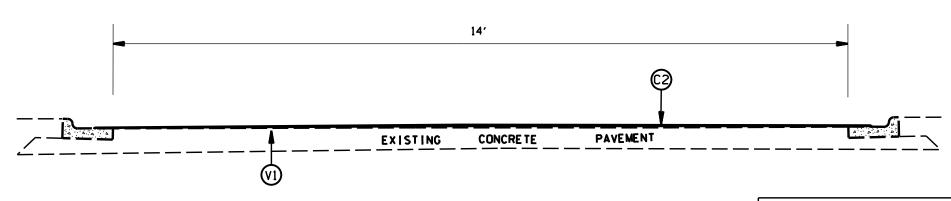
WBS NO. 50468.3.J

SPECIAL NOTES:

- (I) REMOVE APPROXIMATELY 140 FEET OF EXISTING BROKEN CURB & GUTTER.
- (2) UNDERCUT APPROXIMATELY II.O" INCHES OF EXISTING SUBGRADE MATERIAL FROM 2'-5' WIDTH AS DIRECTED BY THE ENGINEER.
- (3) SET NEW CURB & GUTTER TO MATCH EXISTING GRADE AND SUPER AS SHOWN ON (TYPICAL #18).
- (4) PAVE BETWEEN EXISTING SLAB AND NEW CURB & GUTTER AS SHOWN ON (TYPICAL #18).
- (5) BACKFILL MATERIAL BEHIND NEW CURB & GUTTER AS DIRECTED BY THE ENGINEER.
- (6) TIE NEW CURB & GUTTER INTO EXISTING CURB & GUTTER ALONG WOODLAWN AVE FOR SMOOTH TRANSITION.
- (7) PRIOR TO BEGINNING CONSTRUCTION CONTACT MR. DONALD GRIFFITH WITH DDC AT (704-983-4400) TO SCHEDULE OFFSET STAKES FOR NEW CURB & GUTTER ALIGNMENT.



TYPICAL SECTION NO.18
NB OFF RAMP TO WOODLAWN RD



TYPICAL SECTION NO.19
RAMP

I-5825 I-77 PAVEMENT PRESERVATION

 SCALE
 -NA

 DATE
 9/17

 DWG. BY
 JHE

 DESIGN BY
 JHE

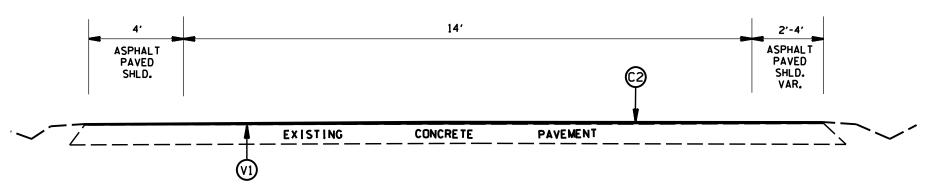


	PAVEMENT SCHEDULE			
A1	APPROX. 10" PCC SLAB REPAIR			
В1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.			
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.			
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.			
СЗ	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.			
C4	PROP. APPROX. 3.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.			
C5	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.			
М	MILLED RUMBLE STRIPS			
Т	SHOULDER RECONSTRUCTION			
V1	MILLING 1.5" DEPTH			
V2	MILLING, 2.0" DEPTH			
V3	MILLING, 4.0" DEPTH			
V4	MILLING, 2.5" DEPTH, BELOW ALL OVERHEAD BRIDGES			
Z	REMOVE AND REPLACE 2'-6" CONCRETE CURB & GUTTER			

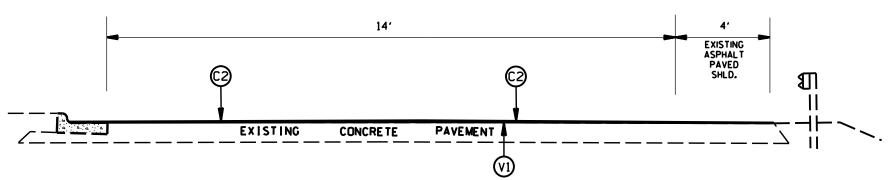
STATE PROJECT NO. SHEET NO. SHEETS

N.C. 1-5825

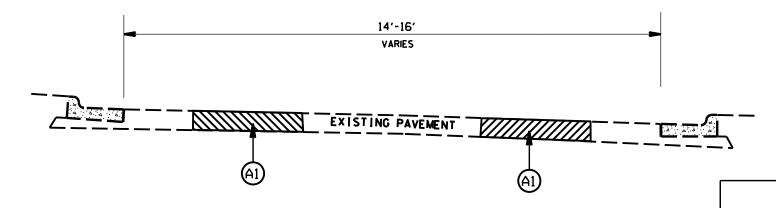
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TYPICAL SECTION NO. 20 RAMP



TYPICAL SECTION NO.21 RAMP



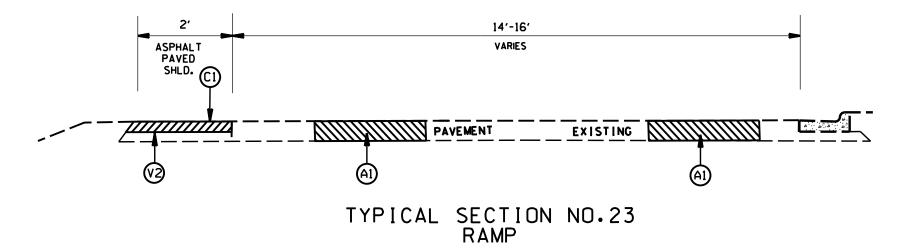
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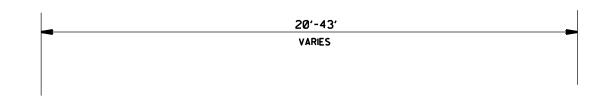
I-5825 I-77 PAVEMENT PRESERVATION



	PAVEMENT SCHEDULE
A1	APPROX. 10" PCC SLAB REPAIR
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
СЗ	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
C4	PROP. APPROX. 3.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
C5	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
М	MILLED RUMBLE STRIPS
Т	SHOULDER RECONSTRUCTION
V1	MILLING 1.5" DEPTH
V2	MILLING, 2.0" DEPTH
V3	MILLING, 4.0" DEPTH
V4	MILLING, 2.5" DEPTH, BELOW ALL OVERHEAD BRIDGES
Z	REMOVE AND REPLACE 2'-6" CONCRETE CURB & GUTTER

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5825		
WRS NO	50468.3.1		





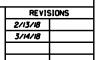


TYPICAL SECTION NO.24 RAMP

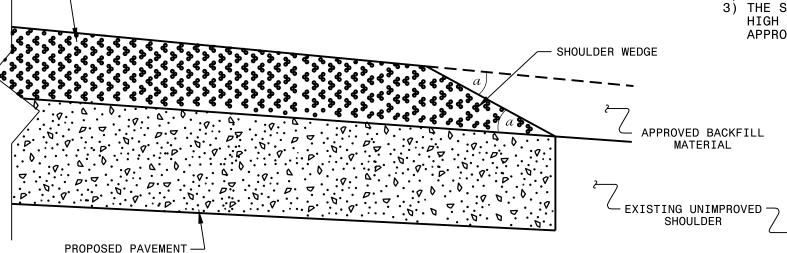
I-5825 I-77 PAVEMENT PRESERVATION

SCALE	-NA-
DATE	9/17
DWG. BY	JHE
DESIGN BY	JHE



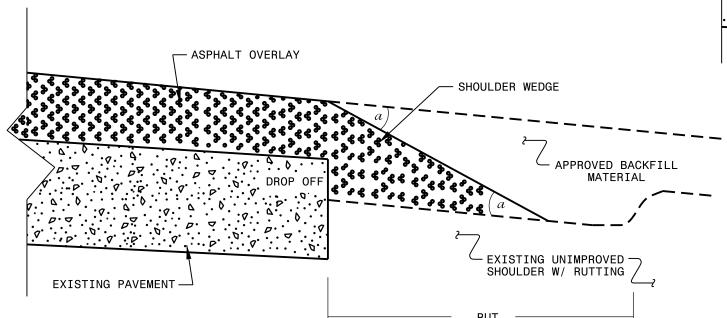


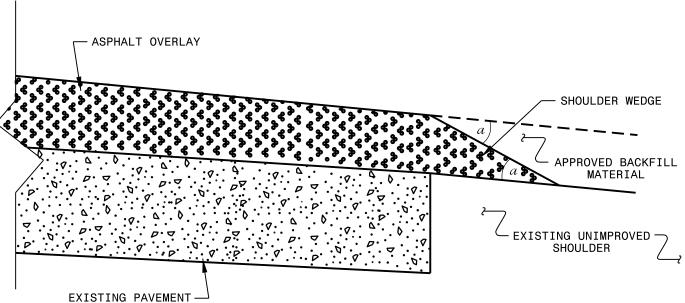
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ Widening or with Existing Paved Shoulder having no dropoffs)





SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

SHOULDER WEDGE **DETAILS**

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

INAL BY:_	T.SPELL	DATE:_	7-19-11
FIED BY:		DATE:	2/2/16
KED BY		DATE	

SHOULDER WEDGE DETAIL (Resurfacing Adjacent to Rutted Shoulder)

- ASPHALT OVERLAY